1600

```
          RAW SEQUENCE LISTING                    DATE: 08/28/2002
          PATENT APPLICATION:  US/09/671,089      TIME: 10:05:13

          Input Set : A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt
          Output Set: N:\CRF3\08282002\I671089.raw
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ENTERED

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  3 <110> APPLICANT: O'Mahony, Daniel J.
  4         Lambkin, Imelda J.
  6 <120> TITLE OF INVENTION: MEMBRANE TRANSLOCATING PEPTIDE DRUG DELIVERY SYSTEM
  8 <130> FILE REFERENCE: E1067/20018
 10 <140> CURRENT APPLICATION NUMBER: 09/671,089
 11 <141> CURRENT FILING DATE: 2000-09-27
 13 <150> PRIOR APPLICATION NUMBER: 60/156,246
 14 <151> PRIOR FILING DATE: 1999-09-27
 16 <160> NUMBER OF SEQ ID NOS: 59
 18 <170> SOFTWARE: PatentIn version 3.1
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 23 <213> ORGANISM: Artificial Sequence
 25 <220> FEATURE:
 26 <223> OTHER INFORMATION: membrane translocating peptide
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 43 <221> NAME/KEY: MOD_RES
 44 <222> LOCATION: (15)..(15)
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 57 <213> ORGANISM: Artificial Sequence
 59 <220> FEATURE:
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 65 1               5                   10                  15
 68 <210> SEQ ID NO: 4
 69 <211> LENGTH: 19
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RAW SEQUENCE LISTING   DATE: 08/28/2002
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Input Set : A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt
Output Set: N:\CRF3\08282002\I671089.raw

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 74 <223> OTHER INFORMATION: membrane translocating peptide
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 92 <223> OTHER INFORMATION: membrane translocating peptide, cyclic
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 97 1               5                   10                  15
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101 <211> LENGTH: 13
102 <212> TYPE: PRT
103 <213> ORGANISM: Artificial Sequence
105 <220> FEATURE:
106 <223> OTHER INFORMATION: membrane translocating peptide, cyclic
108 <400> SEQUENCE: 6
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111 1               5                   10
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116 <212> TYPE: PRT
117 <213> ORGANISM: Artificial Sequence
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120 <223> OTHER INFORMATION: membrane translocating peptide, cyclic internal
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125 1               5                   10
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130 <212> TYPE: PRT
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Input Set : **A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt**
Output Set: **N:\CRF3\08282002\I671089.raw**

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158 <212> TYPE: PRT
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161 <220> FEATURE:
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186 <212> TYPE: PRT
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190 <223> OTHER INFORMATION: membrane translocating peptide, cyclic
192 <400> SEQUENCE: 12
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195 1               5                   10
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200 <212> TYPE: PRT
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203 <220> FEATURE:
204 <223> OTHER INFORMATION: membrane translocating peptide, cyclic
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214 <212> TYPE: PRT
215 <213> ORGANISM: Artificial Sequence
217 <220> FEATURE:
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220 <400> SEQUENCE: 14
222 Ala Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro
223 1               5                   10
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RAW SEQUENCE LISTING
PATENT APPLICATION: **US/09/671,089**

DATE: 08/28/2002
TIME: 10:05:13

Input Set : **A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt**
Output Set: **N:\CRF3\08282002\I671089.raw**

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237 1               5                  10
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242 <212> TYPE: PRT
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245 <220> FEATURE:
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250 Lys Lys Ala Ala Val Leu Leu Pro Val Leu Leu Ala
251 1               5                  10
254 <210> SEQ ID NO: 17
255 <211> LENGTH: 9
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259 <220> FEATURE:
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264 Ala Ala Val Leu Leu Pro Val Leu Leu
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270 <212> TYPE: PRT
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279 1               5
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283 <211> LENGTH: 11
284 <212> TYPE: PRT
285 <213> ORGANISM: Artificial Sequence
287 <220> FEATURE:
288 <223> OTHER INFORMATION: membrane translocating peptide
290 <400> SEQUENCE: 19
292 Ala Val Leu Leu Pro Val Leu Leu Ala Ala Pro
293 1               5                  10
296 <210> SEQ ID NO: 20
297 <211> LENGTH: 10
298 <212> TYPE: PRT
299 <213> ORGANISM: Artificial Sequence
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RAW SEQUENCE LISTING
PATENT APPLICATION: US/09/671,089

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Input Set : A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt
Output Set: N:\CRF3\08282002\I671089.raw

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307 1                5                    10
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312 <212> TYPE: PRT
313 <213> ORGANISM: Artificial Sequence
315 <220> FEATURE:
316 <223> OTHER INFORMATION: membrane translocating peptide
318 <400> SEQUENCE: 21
320 Leu Leu Pro Val Leu Leu Ala Ala Pro
321 1                5
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325 <211> LENGTH: 8
326 <212> TYPE: PRT
327 <213> ORGANISM: Artificial Sequence
329 <220> FEATURE:
330 <223> OTHER INFORMATION: membrane translocating peptide
332 <400> SEQUENCE: 22
334 Leu Pro Val Leu Leu Ala Ala Pro
335 1                5
338 <210> SEQ ID NO: 23
339 <211> LENGTH: 17
340 <212> TYPE: PRT
341 <213> ORGANISM: Artificial Sequence
343 <220> FEATURE:
344 <223> OTHER INFORMATION: membrane translocating peptide
346 <400> SEQUENCE: 23
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349 1                5                    10                   15
352 Ala
356 <210> SEQ ID NO: 24
357 <211> LENGTH: 17
358 <212> TYPE: PRT
359 <213> ORGANISM: Artificial Sequence
361 <220> FEATURE:
362 <223> OTHER INFORMATION: membrane translocating peptide
364 <400> SEQUENCE: 24
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367 1                5                    10                   15
370 Ala
374 <210> SEQ ID NO: 25
375 <211> LENGTH: 45
376 <212> TYPE: DNA
377 <213> ORGANISM: Artificial Sequence
379 <220> FEATURE:
380 <223> OTHER INFORMATION: encodes membrane translocating peptide
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RAW SEQUENCE LISTING ERROR SUMMARY   DATE: 08/28/2002
PATENT APPLICATION: US/09/671,089   TIME: 10:05:14

Input Set : A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt
Output Set: N:\CRF3\08282002\I671089.raw

Please Note:
Use of n and/or Xaa have been detected in the Sequence Listing. Please review the
Sequence Listing to ensure that a corresponding explanation is presented in the <220>
to <223> fields of each sequence which presents at least one n or Xaa.

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Seq#:25;  N Pos.  9,12,15,18,21,24,27,30,33,36,39,42,45
Seq#:26;  N Pos.  3,18,21,24,27,30,33,36,39,42,45,48,51,54
Seq#:27;  N Pos.  9,12,15,18,21,24,27,30,33,36,39,42,45,48,57
Seq#:28;  N Pos.  12,15,18,21,24,27,30,33,36,39,42,45
Seq#:29;  N Pos.  6,9,12,15,18,21,24,27,30,33,36
Seq#:30;  N Pos.  6,9,12,15,18,21,24,27,30,33
Seq#:31;  N Pos.  6,9,12,15,18,21,24,27,30
Seq#:32;  N Pos.  6,9,12,15,18,21,24,27
Seq#:33;  N Pos.  6,9,12,15,18,21,24,27,30,33,36
Seq#:34;  N Pos.  6,9,12,15,18,21,24,27,30,33
Seq#:35;  N Pos.  6,9,12,15,18,21,24,27,30
Seq#:36;  N Pos.  6,9,12,15,18,21,24,27
Seq#:37;  N Pos.  3,6,9,12,15,18,21,24,27,30,33,36
Seq#:38;  N Pos.  3,6,9,12,15,18,21,24,27,30,33
Seq#:39;  N Pos.  9,12,15,18,21,24,27,30,33,36
Seq#:40;  N Pos.  3,6,9,12,15,18,21,24,27
Seq#:41;  N Pos.  3,6,9,12,15,18,21,24,27
Seq#:42;  N Pos.  3,6,9,12,15,18,21,24,27,30,33
Seq#:43;  N Pos.  3,6,9,12,15,18,21,24,27,30
Seq#:44;  N Pos.  3,6,9,12,15,18,21,24,27
Seq#:45;  N Pos.  3,6,9,12,15,18,21,24
Seq#:46;  N Pos.  2,5,8,11,14,17,20,23,26,29,32,44,50
Seq#:47;  N Pos.  12,18,21,24,27,30,33,36,39,42,45,48,51
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VERIFICATION SUMMARY   DATE: 08/28/2002
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Input Set : **A:\E1067-20018 SEQ LIST 8-22-02.ST25.txt**
Output Set: **N:\CRF3\08282002\I671089.raw**

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L:498 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:25 after pos.:0
L:648 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:26 after pos.:0
L:810 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:27 after pos.:0
L:942 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:28 after pos.:0
L:1056 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:29 after pos.:0
L:1164 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:30 after pos.:0
L:1266 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:31 after pos.:0
L:1356 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:32 after pos.:0
L:1470 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:33 after pos.:0
L:1578 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:34 after pos.:0
L:1680 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:35 after pos.:0
L:1770 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:36 after pos.:0
L:1884 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:37 after pos.:0
L:1986 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:38 after pos.:0
L:2094 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:39 after pos.:0
L:2184 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:40 after pos.:0
L:2274 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:41 after pos.:0
L:2376 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:42 after pos.:0
L:2472 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:43 after pos.:0
L:2562 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:44 after pos.:0
L:2640 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:45 after pos.:0
L:2784 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:46 after pos.:0
L:2928 M:341 W: (46) "n" or "Xaa" used, for SEQ ID#:47 after pos.:0
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